Ohio State University
Horticulture and Crop Science

Covus, Capreno Burndown Efficacy

Title No. 2:
Trial ID: 10NTC1 Protocol ID: 10NTC1
Location: Western Branch F-9 E Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact: Dave Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.85872 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67076 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1073.00 FT
Country: USA

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux **Title:** Professor
Affiliation: The Ohio State University
Address: 222 Kottman Hall, 2021 Coffey Road
Location: Columbus OH
Postal Code: 43210 **E-mail:** loux.1@osu.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DKC 60-51 **Description:** RR VT3
BBCH Scale: BCOR **Planting Date:** 4/29/10
Planting Method: SEEDED seeded **Rate, Unit:** 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 52 F
Soil Moisture: MOIST **Emergence Date:** 5/10/10

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Pest Description

Pest 1 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 2 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** LAMAM Lamium amplexicaule
Common Name: Henbit

Pest 4 Type: W **Code:** LEPVI Lepidium virginicum
Common Name: Virginia pepperweed

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed

Pest 6 Type: W **Code:** SONAR Sonchus arvensis
Common Name: Perennial sowthistle

Pest 7 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 8 Type: W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse

Pest 9 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest10 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest11 Type: W **Code:** VERAG Veronica agrestis
Common Name: Field speedwell

Pest12 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest13 Type: W **Code:** RUMCR Rumex crispus
Common Name: Curly dock

Pest14 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

Pest15 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest16 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT2
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-9 East
% OM: 2.8
pH: 5.7
CEC: 21
Texture: SICL silty clay loam
Soil Name: Kokomo
Fert. Level: G good
Soil Drainage: G good

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Application Description

	A	B	C
Application Date:	4/7/10	4/14/10	6/7/10
Time of Day:	9:00 A.M.	10:00 A.M	11:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	21 EPP	14 EEPP	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	REEB		
Air Temperature, Unit:	67 F	55 F	73.3 F
% Relative Humidity:	54	54	78.8
Wind Velocity, Unit:	12 MPH	6 MPH	4.5 MPH
Wind Direction:	S	E	W
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	53 F	50 F	64 F
Soil Moisture:	SLIWET	SLIDRY	WET
% Cloud Cover:	75	2	70
Next Rain Occurred On:	7/8/10	4/24/10	6/8/10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			18 100
Height, Unit:			18 IN
Height Minimum, Maximum:			16 20

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Stage Majority, Percent:	19 100	19 100	
Stage Minimum, Percent:	19 100		
Stage Maximum, Percent:	19 100		
Diameter, Unit:	6 IN	10 IN	
Height, Unit:	2 IN	2 IN	
Height Minimum, Maximum:	2 2	1 2	
Density, Unit:	4 M2	4 M2	
Pest 2 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	19 100	19 100	
Stage Minimum, Percent:	19 100		
Stage Maximum, Percent:	19 100		
Diameter, Unit:	3 IN	4 IN	
Height, Unit:	3 IN	6 IN	
Height Minimum, Maximum:	2 3	5 6	
Density, Unit:	3 M2	3 M2	
Pest 3 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Stage Majority, Percent:	19 100	19 100	
Stage Minimum, Percent:	19 100		
Stage Maximum, Percent:	19 100		
Diameter, Unit:	4 IN	5 IN	
Height, Unit:	3 IN	4 IN	
Height Minimum, Maximum:	2 3	4 4	
Density, Unit:	0.33 M2	0.33 M2	
Pest 4 Code, Type, Scale:	LEPVI W	LEPVI W	LEPVI W
Stage Majority, Percent:	19 100	19 100	
Diameter, Unit:	4 IN	6 IN	
Height, Unit:	10 IN	20 IN	
Height Minimum, Maximum:	8 12	18 20	
Density, Unit:	0.01 M2	0.01 M2	
Pest 5 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	19 100	19 100	19 100
Diameter, Unit:	2 IN	2 IN	
Height, Unit:	2 IN	3 IN	15 IN
Height Minimum, Maximum:	1 2	2 3	4 26
Density, Unit:	4 M2	4 M2	3 M2
Pest 6 Code, Type, Scale:	SONAR W	SONAR W	SONAR W
Stage Majority, Percent:	19 100	19 100	
Diameter, Unit:	4 IN	9 IN	
Height, Unit:	2 IN	5 IN	
Height Minimum, Maximum:	2 3	4 5	
Density, Unit:	2 M2	2 M2	
Pest 7 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:		19 100	19 100
Diameter, Unit:		12 IN	
Height, Unit:		6 IN	7 IN
Height Minimum, Maximum:		5 6	6 8
Density, Unit:		0.3 M2	0.3 M2
Pest 8 Code, Type, Scale:	CAPBP W	CAPBP W	CAPBP W
Stage Majority, Percent:		19 100	

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Diameter, Unit:		4 IN	
Height, Unit:		14 IN	
Height Minimum, Maximum:		12 16	
Density, Unit:		1 M2	
Pest 9 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:		12 100	19 100
Diameter, Unit:		1 IN	
Height, Unit:		0.5 IN	10 IN
Height Minimum, Maximum:		0.15 0.5	2 14
Density, Unit:		0.33 M2	0.33 M2
Pest10 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		12 100	19 100
Diameter, Unit:		1 IN	
Height, Unit:		0.5 IN	20 IN
Height Minimum, Maximum:		0.25 0.5	2 30
Density, Unit:		3 M2	3 M2
Pest11 Code, Type, Scale:	VERAG W	VERAG W	VERAG W
Stage Majority, Percent:		19 100	
Diameter, Unit:		10 IN	
Height, Unit:		3 IN	
Height Minimum, Maximum:		1 3	
Density, Unit:		0.33 M2	
Pest12 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:			16 100
Height, Unit:			6 IN
Height Minimum, Maximum:			2 8
Density, Unit:			85 M2
Pest13 Code, Type, Scale:	RUMCR W	RUMCR W	RUMCR W
Stage Majority, Percent:			18 100
Height, Unit:			14 IN
Height Minimum, Maximum:			12 16
Density, Unit:			0.3 M2
Pest14 Code, Type, Scale:	POLPY W	POLPY W	POLPY W
Stage Majority, Percent:			15 100
Height, Unit:			6 IN
Height Minimum, Maximum:			4 8
Pest15 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:			17 100
Height, Unit:			15 IN
Height Minimum, Maximum:			2 20
Density, Unit:			8 M2
Pest16 Code, Type, Scale:	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:			14 100
Height, Unit:			6 IN
Height Minimum, Maximum:			4 8
Density, Unit:			0.25 M2

Application Equipment

	A	B	C
Appl. Equipment:	6 foot boom	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	53 PSI	53 PSI	53 PSI
Nozzle Type:	TEEJET DG	TEEJET DG	TEEJET DG
Nozzle Size:	8002	8002	8002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT	6 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Mix Size, Unit:	0.33 Gallons	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2	CO2

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Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5	6	7	8	9
	Pest Code					STEME	LAMPU	CAPBP	TAROF	VERAG	SONAR	ERICA		STEME
	Rating Date					4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	5/12/10	5/12/10
	Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
	Rating Unit					%	%	%	%	%	%	%	%	%
	Trt-Eval Interval					13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B		28 DA-B
1	UTC					0	0	0	0	0	0	0	0.0	0
2	Corvus	2.63	5.6 oz/a		B	77	80	98	68	73	83	43	0.0	100
2	Atrazine	4	2 pt/a											
2	COC	100	0.8 qt/a											
3	Corvus	2.63	5.6 oz/a		B	31	28	30	19	10	60	75	0.0	98
3	2,4-D Ester	4	1 pt/a											
3	COC	100	0.8 qt/a											
4	Corvus	2.63	5.6 oz/a		B	12	13	32	27	5	30	37	0.0	100
4	Roundup PowerMax	4.5	22 oz/a											
5	Corvus	2.63	5.6 oz/a		B	6	8	17	14	5	20	27	0.0	87
5	Laudis	3.5	1 oz/a											
5	COC	100	0.8 qt/a											
6	Corvus	2.63	5.6 oz/a		B	30	20	15	20	5	40	50	0.0	96
6	Clarity	4	4 oz/a											
6	COC	100	0.8 qt/a											
7	Corvus	2.63	5.6 oz/a		B	38	17	47	30	10	45	50	0.0	100
7	Cadet	10	0.4 oz/a											
7	COC	100	0.8 qt/a											
8	Capreno	3.46	3 oz/a		B	20	13	17	19	10	60	65	0.0	93
8	Roundup PowerMax	4.5	11 oz/a											
8	COC	100	0.8 qt/a											
9	Balance Flexx	2	2 oz/a		B	10	13	0	10	10	10	25	0.0	97
9	Capreno	3.46	2 oz/a											
9	COC	100	0.8 qt/a											
10	Corvus	2.63	5.6 oz/a		B	82	70	100	80	85	88		0.0	100
10	Ignite	2.34	22 oz/a											
11	Ignite	2.34	22 oz/a			88	88	93	80	100	100	100	0.0	93
11	Sharpen	2.85	1 oz/a											
12	Corvus	2.63	5.6 oz/a		B	67	33	85	70	30	50	85	0.0	100
12	Sharpen	2.85	1 oz/a											
12	COC	100	0.8 qt/a											
13	Surestart	4.25	3 pt/a		A	58	40	45	70	30	60	98	0.0	100
13	Durango DMA	4	24 oz/a											
13	2,4-D Amine	4	1 pt/a											
13	N-PAK AMS	100	2 qt/a											
13	Durango DMA	4	24 oz/a		C									
13	N-PAK AMS	100	2 qt/a											
14	Surestart	4.25	3 pt/a		A	95	95	98	80	100	100	100	0.0	100
14	Atrazine	4	2 pt/a											
14	Durango DMA	4	24 oz/a											
14	2,4-D Amine	4	1 pt/a											
14	N-PAK AMS	100	2 qt/a											
14	Durango DMA	4	24 oz/a		C									
14	N-PAK AMS	100	2 qt/a											

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Pest Code						STEME	LAMPU	CAPBP	TAROF	VERAG	SONAR	ERICA		STEME
Rating Date						4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	4/27/10	5/12/10	5/12/10
Rating Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit						%	%	%	%	%	%	%	%	%
Trt-Eval Interval						13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B		28 DA-B
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5	6	7	8	9
LSD (P=.05)						32.4	14.9	39.8	27.5	13.7	37.3	31.6	0.00	12.8
Standard Deviation						19.2	8.9	22.8	16.1	7.8	20.5	18.0	0.00	7.6
CV						43.79	23.88	47.19	38.58	23.1	38.48	31.1	0.0	8.41
Bartlett's X2						17.057	6.389	12.728	2.972	1.515	6.647	5.343	0.0	8.702
P(Bartlett's X2)						0.106	0.782	0.122	0.965	0.911	0.467	0.501	.	0.122
Replicate F						1.222	1.721	0.010	0.646	0.095	0.097	1.469	0.000	1.241
Replicate Prob(F)						0.3132	0.1994	0.9897	0.5345	0.9095	0.9085	0.2636	1.0000	0.3064
Treatment F						8.989	39.952	8.603	10.641	71.418	7.232	9.516	0.000	35.941
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0018	0.0001	1.0000	0.0001

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Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	10	11	12	13	14	15	16	17	18
	Pest Code					LAMPU	CAPBP	TAROF	VERAG	SONAR	ERICA	STEME	LAMPU	CAPBP
	Rating Date					5/12/10	5/12/10	5/12/10	5/12/10	5/12/10	5/12/10	5/24/10	5/24/10	5/24/10
	Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit					%	%	%	%	%	%	%	%	%
	Trt-Eval Interval					28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	40 DA-B	40 DA-B	40 DA-B
1	UTC					0	0	0	0	0	0	0	0	0
2	Corvus	2.63	5.6	oz/a	B	100	100	98	100	97	100	100	100	100
2	Atrazine	4	2	pt/a										
2	COC	100	0.8	qt/a										
3	Corvus	2.63	5.6	oz/a	B	99	100	99	100	100	98	99	99	100
3	2,4-D Ester	4	1	pt/a										
3	COC	100	0.8	qt/a										
4	Corvus	2.63	5.6	oz/a	B	88	100	100	100	100	100	100	100	100
4	Roundup PowerMax	4.5	22	oz/a										
5	Corvus	2.63	5.6	oz/a	B	97	100	78	100	100	86	100	100	100
5	Laudis	3.5	1	oz/a										
5	COC	100	0.8	qt/a										
6	Corvus	2.63	5.6	oz/a	B	95	100	82	100	93	96	100	100	100
6	Clarity	4	4	oz/a										
6	COC	100	0.8	qt/a										
7	Corvus	2.63	5.6	oz/a	B	92	100	73	100	86	77	100	100	100
7	Cadet	10	0.4	oz/a										
7	COC	100	0.8	qt/a										
8	Capreno	3.46	3	oz/a	B	95	100	94	100	95	93	100	100	100
8	Roundup PowerMax	4.5	11	oz/a										
8	COC	100	0.8	qt/a										
9	Balance Flexx	2	2	oz/a	B	100	100	72	80	90	67	97	100	100
9	Capreno	3.46	2	oz/a										
9	COC	100	0.8	qt/a										
10	Corvus	2.63	5.6	oz/a	B	100	100	94	100	100	97	100	100	100
10	Ignite	2.34	22	oz/a										
11	Ignite	2.34	22	oz/a		73	100	80	100	57	80	90	50	100
11	Sharpen	2.85	1	oz/a										
12	Corvus	2.63	5.6	oz/a	B	95	100	84	100	93	88	100	97	100
12	Sharpen	2.85	1	oz/a										
12	COC	100	0.8	qt/a										
13	Surestart	4.25	3	pt/a	A	93	100	90	100	100	100	100	100	100
13	Durango DMA	4	24	oz/a										
13	2,4-D Amine	4	1	pt/a										
13	N-PAK AMS	100	2	qt/a										
13	Durango DMA	4	24	oz/a	C									
13	N-PAK AMS	100	2	qt/a										
14	Surestart	4.25	3	pt/a	A	100	100	67	100	78	100	100	100	100
14	Atrazine	4	2	pt/a										
14	Durango DMA	4	24	oz/a										
14	2,4-D Amine	4	1	pt/a										
14	N-PAK AMS	100	2	qt/a										
14	Durango DMA	4	24	oz/a	C									
14	N-PAK AMS	100	2	qt/a										

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Pest Code						LAMPU	CAPBP	TAROF	VERAG	SONAR	ERICA	STEME	LAMPU	CAPBP
Rating Date						5/12/10	5/12/10	5/12/10	5/12/10	5/12/10	5/12/10	5/24/10	5/24/10	5/24/10
Rating Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit						%	%	%	%	%	%	%	%	%
Trt-Eval Interval						28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	40 DA-B	40 DA-B	40 DA-B
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	10	11	12	13	14	15	16	17	18
LSD (P=.05)						11.2	0.0	19.0	25.6	20.8	19.0	8.5	16.0	0.0
Standard Deviation						6.6	0.0	11.3	14.2	12.2	11.3	5.0	9.5	0.0
CV						7.59	0.0	14.2	15.57	14.37	13.42	5.47	10.68	0.0
Bartlett's X2						4.711	0.0	16.667	0.0	8.809	8.186	2.007	4.425	0.0
P(Bartlett's X2)						0.695	.	0.118	.	0.267	0.316	0.157	0.035*	.
Replicate F						1.382	0.000	1.269	0.423	1.510	1.374	0.755	1.159	0.000
Replicate Prob(F)						0.2697	1.0000	0.2986	0.6652	0.2463	0.2715	0.4806	0.3301	1.0000
Treatment F						46.560	0.000	15.070	10.675	14.867	16.305	83.961	27.621	0.000
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	1.0000

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Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	19	20	21	22	23	24	25	26	27
	Pest Code					TAROF	VERAG	SONAR	ERICA	AMBTR	SETFA	AMBEL	AMBTR	CHEAL
	Rating Date					5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	6/7/10	6/7/10	6/7/10	6/7/10
	Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit					%	%	%	%	%	%	%	%	%
	Trt-Eval Interval					40 DA-B	40 DA-B	40 DA-B	40 DA-B	40 DA-B	0 DA-C	0 DA-C	0 DA-C	0 DA-C
1	UTC					0	0	0	0	0	0	0	0	0
2	Corvus	2.63	5.6 oz/a		B	77	100	100	100	95	70	100	93	100
2	Atrazine	4	2 pt/a											
2	COC	100	0.8 qt/a											
3	Corvus	2.63	5.6 oz/a		B	98	99	100	97	100	61	98	91	99
3	2,4-D Ester	4	1 pt/a											
3	COC	100	0.8 qt/a											
4	Corvus	2.63	5.6 oz/a		B	100	100	100	100	97	62	100	77	100
4	Roundup PowerMax	4.5	22 oz/a											
5	Corvus	2.63	5.6 oz/a		B	67	100	92	80	85	57	90	85	100
5	Laudis	3.5	1 oz/a											
5	COC	100	0.8 qt/a											
6	Corvus	2.63	5.6 oz/a		B	57	100	100	100	97	70	93	73	100
6	Clarity	4	4 oz/a											
6	COC	100	0.8 qt/a											
7	Corvus	2.63	5.6 oz/a		B	57	100	93	43	93	65	100	63	100
7	Cadet	10	0.4 oz/a											
7	COC	100	0.8 qt/a											
8	Capreno	3.46	3 oz/a		B	90	100	100	83	87	53	53	63	77
8	Roundup PowerMax	4.5	11 oz/a											
8	COC	100	0.8 qt/a											
9	Balance Flexx	2	2 oz/a		B	30	100	83	60	83	42	70	43	100
9	Capreno	3.46	2 oz/a											
9	COC	100	0.8 qt/a											
10	Corvus	2.63	5.6 oz/a		B	80	100	93	95	93	60	100	65	100
10	Ignite	2.34	22 oz/a											
11	Ignite	2.34	22 oz/a			37	90	23	60	67	20	30	50	87
11	Sharpen	2.85	1 oz/a											
12	Corvus	2.63	5.6 oz/a		B	53	100	73	77	90	60	77	63	100
12	Sharpen	2.85	1 oz/a											
12	COC	100	0.8 qt/a											
13	Surestart	4.25	3 pt/a		A	100	100	100	100	85	50	77	63	100
13	Durango DMA	4	24 oz/a											
13	2,4-D Amine	4	1 pt/a											
13	N-PAK AMS	100	2 qt/a											
13	Durango DMA	4	24 oz/a		C									
13	N-PAK AMS	100	2 qt/a											
14	Surestart	4.25	3 pt/a		A	67	100	100	100	92	43	93	75	100
14	Atrazine	4	2 pt/a											
14	Durango DMA	4	24 oz/a											
14	2,4-D Amine	4	1 pt/a											
14	N-PAK AMS	100	2 qt/a											
14	Durango DMA	4	24 oz/a		C									
14	N-PAK AMS	100	2 qt/a											

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Pest Code						TAROF	VERAG	SONAR	ERICA	AMBTR	SETFA	AMBEL	AMBTR	CHEAL
Rating Date						5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	6/7/10	6/7/10	6/7/10	6/7/10
Rating Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit						%	%	%	%	%	%	%	%	%
Trt-Eval Interval						40 DA-B	40 DA-B	40 DA-B	40 DA-B	40 DA-B	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	19	20	21	22	23	24	25	26	27
LSD (P=.05)						24.4	7.9	22.5	31.5	22.8	12.0	28.9	28.0	15.7
Standard Deviation						14.5	4.7	13.4	18.7	13.4	7.2	17.2	16.7	9.3
CV						22.32	5.11	16.17	23.96	16.18	14.07	22.26	25.72	10.36
Bartlett's X2						9.509	0.0	6.419	8.942	12.262	4.86	2.979	6.074	0.014
P(Bartlett's X2)						0.301	.	0.268	0.177	0.344	0.90	0.887	0.912	0.904
Replicate F						0.015	1.121	0.203	1.484	0.493	1.050	0.622	0.289	0.862
Replicate Prob(F)						0.9849	0.3417	0.8178	0.2461	0.6173	0.3647	0.5450	0.7516	0.4344
Treatment F						12.081	96.083	16.562	7.245	10.621	22.678	9.370	5.934	24.771
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	ERICA 6/7/10 CONTRO % 0 DA-C 28	SONAR 6/7/10 CONTRO % 0 DA-C 29	TAROF 6/7/10 CONTRO % 0 DA-C 30
1	UTC					0	0	0
2	Corvus	2.63	5.6	oz/a	B	100	100	72
2	Atrazine	4	2	pt/a				
2	COC	100	0.8	qt/a				
3	Corvus	2.63	5.6	oz/a	B	100	100	100
3	2,4-D Ester	4	1	pt/a				
3	COC	100	0.8	qt/a				
4	Corvus	2.63	5.6	oz/a	B	100	100	100
4	Roundup PowerMax	4.5	22	oz/a				
5	Corvus	2.63	5.6	oz/a	B	77	75	77
5	Laudis	3.5	1	oz/a				
5	COC	100	0.8	qt/a				
6	Corvus	2.63	5.6	oz/a	B	100	100	73
6	Clarity	4	4	oz/a				
6	COC	100	0.8	qt/a				
7	Corvus	2.63	5.6	oz/a	B	67	100	62
7	Cadet	10	0.4	oz/a				
7	COC	100	0.8	qt/a				
8	Capreno	3.46	3	oz/a	B	90	100	73
8	Roundup PowerMax	4.5	11	oz/a				
8	COC	100	0.8	qt/a				
9	Balance Flexx	2	2	oz/a	B	47	70	37
9	Capreno	3.46	2	oz/a				
9	COC	100	0.8	qt/a				
10	Corvus	2.63	5.6	oz/a	B	100	100	90
10	Ignite	2.34	22	oz/a				
11	Ignite	2.34	22	oz/a		63	30	100
11	Sharpen	2.85	1	oz/a				
12	Corvus	2.63	5.6	oz/a	B	80	80	42
12	Sharpen	2.85	1	oz/a				
12	COC	100	0.8	qt/a				
13	Surestart	4.25	3	pt/a	A	100	100	100
13	Durango DMA	4	24	oz/a				
13	2,4-D Amine	4	1	pt/a				
13	N-PAK AMS	100	2	qt/a				
13	Durango DMA	4	24	oz/a	C			
13	N-PAK AMS	100	2	qt/a				
14	Surestart	4.25	3	pt/a	A	100	100	70
14	Atrazine	4	2	pt/a				
14	Durango DMA	4	24	oz/a				
14	2,4-D Amine	4	1	pt/a				
14	N-PAK AMS	100	2	qt/a				
14	Durango DMA	4	24	oz/a	C			
14	N-PAK AMS	100	2	qt/a				

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Pest Code						ERICA	SONAR	TAROF
Rating Date						6/7/10	6/7/10	6/7/10
Rating Type						CONTRO	CONTRO	CONTRO
Rating Unit						%	%	%
Trt-Eval Interval						0 DA-C	0 DA-C	0 DA-C
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	28	29	30
LSD (P=.05)						28.1	19.1	25.7
Standard Deviation						16.7	11.3	15.0
CV						20.82	13.68	21.16
Bartlett's X2						1.667	0.973	12.797
P(Bartlett's X2)						0.893	0.324	0.119
Replicate F						0.162	1.066	0.270
Replicate Prob(F)						0.8510	0.3608	0.7666
Treatment F						8.991	22.723	11.173
Treatment Prob(F)						0.0001	0.0001	0.0001

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Covus, Capreno Burndown Efficacy

Title No. 2:
Trial ID: 10NTC1 Protocol ID: 10NTC1
Location: Western Branch F-9 E Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact: Dave Lamore, Bayer CropScience

Pest Code
STEME, Stellaria media, = US
LAMPU, Lamium purpureum, = US
CAPBP, Capsella bursa-pastoris, = US
TAROF, Taraxacum officinale, = US
VERAG, Veronica agrestis, = US
SONAR, Sonchus arvensis, = US
ERICA, Conyza canadensis, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US
AMBEL, Ambrosia artemisiifolia, = US
CHEAL, Chenopodium album, = US
Rating Type
CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury
Rating Unit
% = percent